Contents

Aigle, M., s. Grenson, M., *et al.* 73

Alper, T., Forage, A. J.: The Primary UV Lesions for Reversion to Prototrophy in Auxotrophic *Escherichia coli*: Inferences from Studies of Protection by Acriflavine . . . 147

Artemiev, M. I., s. Ravin, V. K. 359

Arwert, F., Venema, G.: Transfection of *Bacillus subtilis* with Bacteriophage H1 DNA: Fate of Transfecting DNA and Transfection Enhancement in *B. subtilis uvr*$^+$ and *uvr*$^-$ Strains 55

Balassa, G., s. Sousa, J. C. F., *et al.* 261

Bekke, B., s. Nilsson-Tillgren, T., *et al.* 157

Berger, E.: The Ribosomes of *Drosophila*. I. Subunit and Protein Composition 1

Billault, A., s. Lepesant, J.-A., *et al.* 213

Brevet, J.: Direct Assay for Sigma Factor Activity and Demonstration of the Loss of this Activity during Sporulation in *Bacillus subtilis* 223

Callen, D.: The Effect of Mating Type on the Polarity of Mitochondrial Gene Transmission in *Saccharomyces cerevisiae* 321

Coddington, A., s. MacDonald, D. W., *et al.* 187

Cohen, G., Zimmer, Z.: Transfection of *Escherichia coli* by Bacteriophage P1 DNA. (Short Communication) 183

Cove, D. J., s. MacDonald, D. W., *et al.* 187

Curtiss, R., III, s. Khachatourians, G. G., *et al.* 23

Dapena, J., s. Garcia-Bellido, A. 117

Dedonder, R., s. Lepesant, J.-A., *et al.* 213

Donch, J. J., Greenberg, J.: The Effect of *lex* on UV Sensitivity, Filament Formation and λ Induction in *lon* Mutants of *Escherichia coli* 277

Drillien, R., s. Grenson, M., *et al.* 73

Dubois, E., s. Grenson, M., *et al.* 73

Forage, A. J., s. Alper, T. 147

Garcia-Bellido, A., Dapena, J.: Induction, Detection and Characterization of Cell Differentiation Mutants in *Drosophila* 117

Greenberg, J., s. Donch, J. J. 277

Grenson, M., Dubois, E., Piotrowska, M., Drillien, R., Aigle, M.: Ammonia Assimilation in *Saccharomyces cerevisiae* as Mediated by the Two Glutamate Dehydrogenases. Evidence for the *gdhA* Locus Being a Structural Gene for the NADP-dependent Glutamate Dehydrogenase 73

Guild, W. R., Shoemaker, N. B.: Intracellular Competition for a Mismatch Recognition System and Marker-specific Rescue of Transforming DNA from Inactivation by Ultraviolet Irradiation 291

Guild, W. R., s. Shoemaker, N. B. 283

Haendle, J.: X-ray Induced Mitotic Recombination in *Drosophila melanogaster*. III. Dose Dependence of the "Pairing" Component 233

Held, W. A., Nomura, M., Hershey, J. W. B.: Ribosomal Protein S21 is Required for Full Activity in the Initiation of Protein Synthesis 11

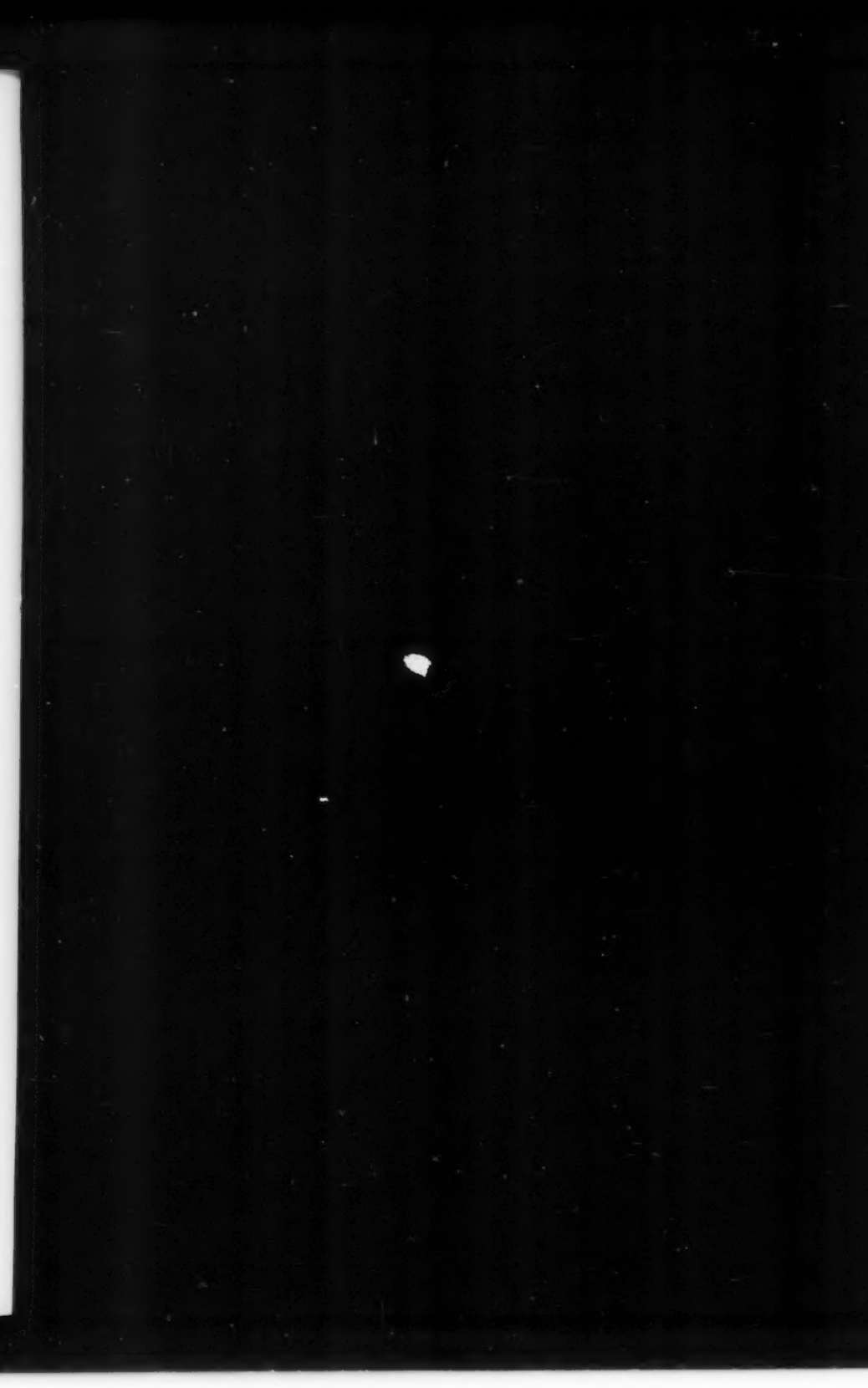
Hershey, J. W. B., s. Held, W. A., *et al.* 11

Hori, H., Takata, R., Muto, A., Osawa, S.: Ribosomal RNA Synthesis in the F′14 Episome-Containing Minicells of *Escherichia coli* 341

Horiuchi, T., Nagata, T.: Lethality of the *Escherichia coli* K12 Cell Doubly Deficient in DNA Polymerase I and DNA Strand-joining Activity 105

Howell, N., Molloy, P. L., Linnane, A. W., Lukins, H. B.: Biogenesis of Mitochondria 34. The Synergistic Interaction of Nuclear and Mitochondrial Mutations to Produce Resistance to High Levels of Mikamycin in *Saccharomyces cerevisiae* 43
Kang, S.-S.: A New Type of Suppression of Temperature Sensitive Gene Activity in *Escherichia coli*. (Short Communication) 87
Kazemie, M.: Influence of Heating on the Formation of Ribosome Couples and 80S Initiation Complex from the 40S and 60S Ribosomal Subunits from Rabbit Reticulocytes 171
Khachatourians, G. G., Sheehy, R. J., Curtiss, R., III: Fate of Conjugally Transferred DNA in Minicells of *Escherichia coli* K-12 23
Kielland-Brandt, M. C., s. Nilsson-Tillgren, T., *et al.* 157
Kinghorn, J. R., Pateman, J. A.: The Effect of the Carbon Source on Ammonium Regulation in *Aspergillus nidulans*. (Short Communication) 95
Kłopotowski, T., s. Wild, J., *et al.* 131
Krajewska-Grynkiewicz, K., s. Wild, J., *et al.* 131
Kunst, F., s. Lepesant, J.-A., *et al.* 213
Lambertsson, A. G.: The Ribosomal Proteins of *Drosophila melanogaster*. III. Further Studies on the Ribosomal Protein Composition during Development 241
Langer, H., s. Ullerich, F.-H. 273
Lepesant, J.-A., Lepesant-Kejzlarová, J., Pascal, M., Kunst, F., Billault, A., Dedonder, R.: Identification of the Structural Gene of Levansucrase in *Bacillus subtilis* Marburg 213
Lepesant-Kejzlarová, J., s. Lepesant, J.-A., *et al.* 213
Lindahl, G.: Characterization of Conditional Lethal Mutants of Bacteriophage P2 . . . 249
Linnane, A. W., s. Howell, N., *et al.* 43
Lukins, H. B., s. Howell, N., *et al.* 43
MacDonald, D. W., Cove, D. J., Coddington, A.: Cytochrome-c Reductases from Wild-type and Mutant Strains of *Aspergillus nidulans* 187
Molloy, P. L., s. Howell, N., *et al.* 43
Muto, A., s. Hori, H., *et al.* 341
Nagata, T., s. Horiuchi, T. 105
Némoz, G. M., s. Portalier, R. C., *et al.* 301
Nilsson-Tillgren, T., Kielland-Brandt, M. C., Bekke, B.: Studies on the Biosynthesis of Tobacco Mosaic Virus. VI. On the Subcellular Localization of Double-stranded Viral RNA 157
Nomura, M., s. Held, W. A., *et al.* 11
Osawa, S., s. Hori, H., *et al.* 341
Pafort, H. C., s. Wijsman, H. J. W. 349
Pascal, M., s. Lepesant, J.-A., *et al.* 213
Pateman, J. A., s. Kinghorn, J. R. 95
Piotrowska, M., s. Grenson, M., *et al.* 73
Portalier, R. C., Robert-Baudouy, J. M., Némoz, G. M.: Etudes de mutations affectant les gènes de structure de l'isomerase uronique et de l'oxydoreductase altronique chez *Escherichia coli* K12 301
Ravin, V. K., Artemiev, M. I.: Fine Structure of the Lysozyme Gene of Bacteriophage T4B 359
Robert-Baudouy, J. M., s. Portalier, R. C., *et al.* 301
Schleif, R. F., s. Steffen, D. L. 93
Sheehy, R. J., s. Khachatourians, G. G., *et al.* 23
Shoemaker, N. B., Guild, W. R.: Destruction of Low Efficiency Markers is a Slow Process Occurring at a Heteroduplex Stage of Transformation 283
Shoemaker, N. B., s. Guild, W. R. 291
Silva, M. T., s. Sousa, J. C. F., *et al.* 261
Sousa, J. C. F., Silva, M. T., Balassa, G.: Biochemical Genetics of Bacterial Sporulation. V. Fine Structure Analysis of Two Sporulation Mutants of *B. subtilis* Derepressed for Late Functions 261

GENERAL BOOKBINDING CO.
74 [illegible] 2 013 1 S 4084
QUALITY CONTROL MARK

Stanisich, V. A.: Interaction between an R Factor and an Element Conferring Resistance to Mercuric Ions in *Pseudomonas aeruginosa* 201
Steffen, D. L., Schleif, R. F.: The Arabinose C Gene Product of *Escherichia coli* B/r is Hyperlabile in a Cell Free Protein Synthesis System. (Short Communication) . . 93
Suda, K., Uchida, A.: The Linkage Relationship of the Cytoplasmic Drug-Resistance Factors in *Saccharomyces cerevisiae* 331
Takata, R., s. Hori, H., *et al.* 341
Uchida, A., s. Suda, K. 331
Ullerich, F.-H., Langer, H.: *lemon* — eine weitere Augenfarbmutante bei der Schmeißfliege *Calliphora erythrocephala*. (Short Communication) 273
Venema, G., s. Arwert, F. 55
Walczak, W., s. Wild, J., *et al.* 131
Wijsman, H. J. W., Pafort, H. C.: Pleiotropic Mutations in *Escherichia coli* Conferring Tolerance to Glycine and Sensitivity to Penicillin 349
Wild, J., Walczak, W., Krajewska-Grynkiewicz, K., Kłopotowski, T.: D-Amino Acid Dehydrogenase: The Enzyme of the First Step of D-Histidine and D-Methionine Racemization in *Salmonella typhimurium* 131
Wulff, D. L.: Partial Dominance of Lambda cII*a* Mutants 99
Zimmer, Z., s. Cohen, G. 183

Indexed in Current Contents